

11-19-1986

## Avion 1986-11-19

Embry-Riddle Aeronautical University

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academic credit for what they learn working in industry. As a co-op, students have the chance to see what the "real world" is like by applying the knowledge gained in courses to practical situations. They can also get a better idea of what they want to do when they graduate.

Ms. Femrite explained, "Management students say they want to manage aviation. Well, the FAA does that. Engineers are similar. They say they want to do what to do engineering work without knowing what engineering work is." She went on to say that by co-oping, students can get a good idea of what it is they enjoy to do and can then set more realistic career goals.

In addition to helping the student, co-ops help the employer decide whether or not to make the investment in the student i.e. offering him a job upon graduation. "Organizations like NASA and the NTSB hire almost exclusively through co-ops," said Ms. Femrite. "The NTSB takes you out to the crash site so that they can see how you react before they make the decision to make the investment in you."

Co-ops also help establish your appearance since students that co-op gain an understanding of how industry operates, what professionals look like and what is expected from them.

Ms. Femrite said that she has had interviewers tell her that they know in the first thirty seconds if they are not going to hire someone just by the way he looks, how comfortable he is in the suit and tie and how he handles himself in a professional atmosphere.

"Experience can be helpful in making the graduate more marketable and this is what co-oping does." Co-ops are regarded by some to be the most educationally valuable of any of the courses a student will take.

## By the sea...

Underneath the watchful eye of the Ponce Inlet light house, these two shore birds are not the only ones looking for some tasty morsels in the shallows of low tide. Both tourists and locals enjoy this small town just south of Daytona Beach.

# Turkey dinner

## Faculty open homes to students over holiday

Counseling Center  
News Release

Where will you be for Thanksgiving dinner? Unable to be with your family and friends this year? Well, you don't have to spend Thanksgiving Day by yourself. Several faculty and staff are opening their homes to students. They would like you to join them in their homes for

Thanksgiving festivities. If you are interested in sharing Thanksgiving dinner with a staff or faculty member drop by Health and Counseling in the University Center, and leave your name and box number by Friday, Nov. 21. A limited number of openings are available, so it will be first come, first served.

Have a Happy Thanksgiving Day — you have much to be thankful for!

Air photo by Richard Clarke

the 1934 trip. He also crashed on the final leg of the journey and had to spend three weeks in the hospital before finishing in Long Beach.

Lloyd, 38, of Fishkill, N.Y., tried to avoid a few of the 15 crashes that plagued Rodgers, but he also stopped in the same 76 places, adding 25 of his own along the way.

Rodgers, who was 32 in 1911, spent less time in the air than Lloyd did because of a culprit called weather.

A Pittsburgh native and an IBM research engineer, Lloyd wanted what he called an aeronautical adventure, and he wanted to give Rodgers some of the credit he believes he deserved but never got.

He dressed like Rodgers, flew a plane similar to Rodgers, called his craft the "Vin Fiz" just like Rodgers, and made the trip courtesy of Armour Food Co. of Chicago the same as Rodgers.

But there were some dif-

ferences. Lloyd had a tailhook and a tailhook with a machine in Indiana.

Along Lloyd's way, he flew with a flock of Canadian geese, crash landed in a bean field and got caught in a web.

"Flying spiders. I'd never heard of them until I flew into them over Illinois. At one time, I landed and the plane was just draped in spider webs," Lloyd said.

Rodgers was nearly crippled by his many crashes along the way, but the only pain Lloyd experienced was a rip in the seat of his pants and his pride was quickly patched.

"We had to make more landings than Rodgers did. We could not recreate the same problems he had. Our plane doesn't have quite the endurance his did. And I wasn't willing to run out of gas like he did," Lloyd said.

Lloyd started the flight Sept. 17 in Hoboken, N.J., 75 years after Rodgers took off from Sheepshead Bay, N.Y.

# Materialism drives students to college

By Karen L. Zellbell  
College Press Service

Los Angeles, CA — Students have become less interested in liberal arts, are more vulnerable to job pressures, are probably less liberal but aren't necessarily more conservative than they were 20 years ago, a report released last week by the Higher Education Research Institute (HERI) at UCLA says.

UCLA, along with the American Council on Education, surveys some 200,000 college freshmen a year about their college plans, their social attitudes and their political beliefs.

To mark the 20th anniversary of the surveys, HERI officials issued a report summarizing some of their major finds.

The most obvious change, says HERI's Dr. K.C. Green, is in the majors students choose. There have been sharp drops in the numbers of math, humanities and liberal arts, science, and education majors. Green says the biggest increase has been in business.

"Students are going to college

(armed with) job preferences," he says. "For the first time, we're seeing the (number of students aiming primarily) to be financially well off increasing."

By the same token, Green notes, student interest in developing "a meaningful philosophy of life" is decreasing.

"We're in the materialistic age now. The country is just emerging from the worst economic period since the thirties," he says. "It cut a wide swathe across (the nation). Students are saying 'I don't want this to happen to me'."

Such "materialism" also keeps showing up in surveys by the Institute for Social Research (ISR) at the University of Michigan, which runs another annual nationwide survey of student attitudes.

"We're seeing similarities (to the UCLA study) in freshman statements on desired and preferred work settings," the ISR's Dr. Gerald Bachman reports. "Students prefer to be employed by large corporations now."

Bachman suspects it's because the job market is "too crowded now. These kids are at the tail

end of the Baby Boom, and they are going to suffer the most."

Whatever the reason, Green thinks "the declining interest in certain majors — like engineering (which has lost about 68,000 students) — doesn't bode well for the nation's future."

Perhaps most surprisingly, Green says the HERI surveys disprove the popular notion that college students are becoming more conservative politically.

While fewer students now call themselves "liberal," about the same number of students call themselves "conservative" today as 20 years ago.

The "real growth" area of the collegiate political spectrum, he says, has been among students who call themselves "middle of the road."

But when asked to take a position on specific issues, even students who label themselves as "conservative" tend to espouse traditionally liberal stances, Green says.

The vast majority of students support abortion rights, want a bigger federal role in social issues and would like to see defense spending cut.



Air photo by Richard Clarke

## Iron forest....

Framed by the massive arm of a back-hoe stands the steel-work for Embury-Riddle's new Administration Building. Scheduled for com-

pletion at the end of the Spring trimester, the newest modification to the Daytona Beach campus slowly begins to take shape.

## Bandwagon collision

Just when you thought America didn't have any more fads or crazes, a new one emerges. Bandwagoning has become our favorite new pastime. We have SADD (Students Against Drunk Drivers), MADD (Mothers Against Drunk Drivers), CAMP (Campaign Against Marijuana Planting), the Moral Majority and of course, the whole crop of anti-drug bandwagons.

The Ivory tower philosophies preached by bandwagons sometimes miss the point of social problems; substituting dogma for real solutions. More often than not the bandwagons seek only to illuminate social problems in the interest of being fashionable or trendy.

The recent public frenzy generated by the anti-drug campaigners has caused political pressure to assemble the largest, most expensive anti-drug packages in our history, generating notoriety for their political proponents.

Drug abuse is a very serious problem; one that threatens the very core of our society. How then, can an argument that questions anti-drug activities be considered tenable? Our argument pivots on the difference between responsible moderation and jingoistic fanaticism.

The best-intended social programs such as CAMP can be led astray in the blinding light of trendy mass consciousness. In all social programs, the leaders must ensure that the interests of the people are paramount; and not subjugated in the interest of what will make good press. CAMP's efforts to eradicate the growth of marijuana in the United States is applauded by many. Yet this same effort has been the apparent cause of an frightening increase in the use of more dangerous drugs such as crack cocaine.

Surely, CAMP's directors have no desire to push drug users to more dangerous additions, yet this effect is easily forgotten in the hoopla over the successful eradication of field after field of marijuana crops.

When their net benefit to society becomes questionable, these programs must be scrutinized, scrutinized for their effects in their areas of design as well as their collateral effects.

Social crusades against the evils of our times are as necessary now as they were during prohibition. Moderation

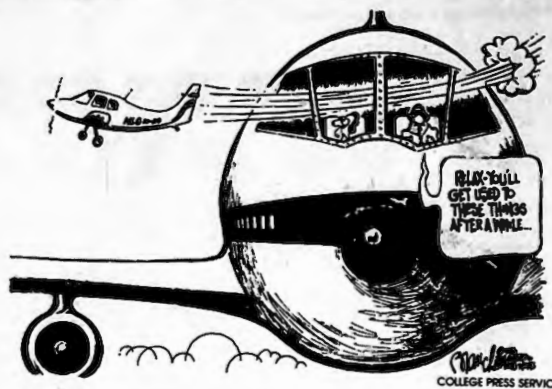
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Social crusades against the evils of our times are as necessary now as they were during prohibition. Moderation and common sense must, however, prevail. Just as the extremist acts of Carrie Nation were questioned, so must we question the equally extreme acts of well-intentioned modern crusaders.



COLLEGE PRESS SERVICE

## Letters to the Editor

### Out of Line

To the Editor:

In the Oct. 29 edition of the Avion, a letter describing my artwork on the Entertainment Halloween poster was published. I would like to say that this poster was in no way meant to be sexist and was definitely not the fabrication of a vulgar, journalistic artist.

This poster was seen and approved by my chairman and my promotions coordinator. I spent well over a week and a half designing and refining a poster that would catch the student's eye, and at the same time, convey all the necessary information. Along the way I was given many suggestions on how to draw it, but refused them all because it would have made the poster very sexist. This is not what I wanted.

This poster was designed to attract attention, promote the con-

cept for your convoluted interpretation of my artistic endeavors. I have seen some television commercials that go a lot farther than my drawing.

In your letter you wrote that you didn't see it in good nature to put the posters in the bathrooms. Why not? These areas are deemed by the administration as "legal" places for advertising upcoming events. These areas are strategic locations that the student body frequents the most.

As I've said before, art is what one perceives it to be. Obviously when it comes to art, it is a blunt attack against the presumably normal public. Again, such was not my intention. You also mentioned that someone had written on the poster that it was sexist. What you seem to have forgotten to mention is that some people had drawn additions and also added words to that particular poster. This is probably why someone else added

Lastly you wrote that you congratulate this person for having the "guts" to write the comment, "This is very sexist." on the poster. You complain in your letter, but when it comes to signing your name, you seem to have regrets. Why? I hope that the other students of this university have the sense to at least try to change the things that they can change (this being one of them). I invite you sir/ma'am, to the next ERAU Entertainment meeting, to offer your suggestions on the poster that will be drawn for the next Entertainment sponsored event. These meetings are held weekly in the Faculty/Staff lounge, Thursday nights at 7:30 p.m. Will we see you there?

Dieter Jaehn Jr.  
Promotions Artist  
ERAU Entertainment

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Mandatory advisement I'm sure has stirred up many mixed feelings. The idea of having an advisor to be benefit the student in

his/her curriculum planning and course selection. If this is correct, why then would any advisor encourage a student to change his major or completely pack up and go home? Who would give such advice?

Dr. Rogers has been assigned as my advisor. I was totally floored after our conversation! Why would I want to change my major? Shouldn't I be the one to decide if my major is too hard? And change to what?

I was very shocked to hear an advisor tell me to consider changing my major. But why change? Because, "C.S.W.A.A. is a tough degree and people in BONEHEAD classes don't usually get their degree." I was told. The term "bonehead" caused my mouth to drop and hit the floor. Some students may need a review class before entering Calculus and Physics, why should they then be stereotyped as boneheads?

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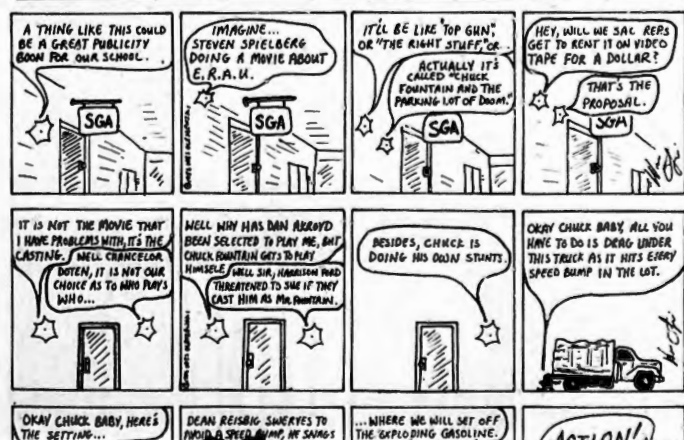
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These students are getting the necessary review to build a solid foundation for the following upper level courses. They shouldn't be discouraged from continuing

See LETTER, page 3

## Cartoons by Les Oleszewski



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Space Technology Editor  
Peter Merlin

Aeronautics Editor  
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This week's staff: Tim VanMilligan, Pat Bellport, Dave Rovka, Rich Grey, Tim Haas, Larry Silver.

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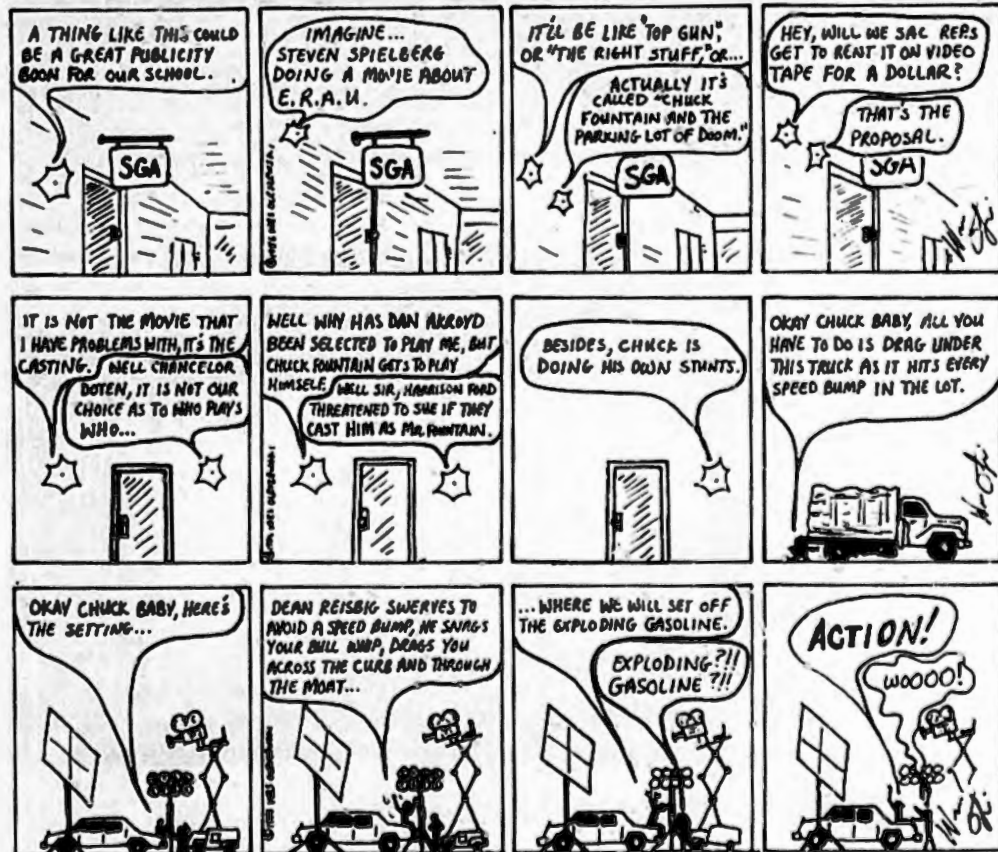
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The Avion is an Associated Press member newspaper, and subscribes to the Campus News Digest and College Press Service. The Avion is a member of the Columbia Scholastic Press Association, College Media Advisers, and the Associated Collegiate Press.

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## Woman provides assistance to flight-fearing people

**TAKE-OUT ONLY**

## 'Gooney Bird' comes under a close look

By Brian Nicklas

The DC-3 50 Years of legendary flight by Peter M. Bowers. TAB / Aero Books, Blue Ridge Summit, PA. 229 pages. Number of 314 848W photos, 23 color photos, 7 1/2 x 9 softbound. Price \$19.95.

Fifty Glorious Years: A pictorial tribute to the Douglas DC-3 1935-1985 by Arthur Pearcey. Aeronautics Publishing, Ltd., Vallejo, CA. 168 pages, 147 84W, 32 color illustrations, 8 1/2 x 11 hardbound. Price \$21.95.

"The only replacement for a DC-3 is a DC-3." This statement is found in many books and articles on Douglas's "Grand Dame" of aviation, and fortunately for air travelers this statement has been proven true. It seems that if an airplane has a reputation as a work-horse, it is compared to the DC-3. Even the Space Shuttle has been termed a "Space-Age DC-3."

These two books complement each other beautifully. There is a brief and well written history to accompany the stunning photos in Pearcey's book, while Bowers' volume has many fine photos to illustrate his story of the DC-3. Either book stands well on its own, but a true fan of the DC-3 will want to own both.

Peter Bowers is well known as an author who goes into meticulous detail when writing an aircraft's history, and with no airplane like the DC-3, this presents a formidable challenge. Bowers has met the challenge, as the DC-3 is a wonderful book covering everything imaginable concerning the "Gooney Bird."

From a look at the civil transport field before the DC-3 to its birth and growth as the modern airliner, to its military career and all the sub-variants that the US and other military forces used, Bowers covers it all. All the details one could want concerning the DC-3 are presented, most illustrated by a photo showing what differentiated one variant from the next.

Thirty-six pages at the rear of the book are appendices, information residing here covering its specifications, production figures, Approved Type Certificates and I's and British military paint schemes, plus US military serial numbers. It seems as if Bowers has covered all corners here, with coverage extending even to the use of the DC-3 in movies, museums and monuments, but one area escaped notice. Many flight schools and training centers used DC-3s as instructional airframes for maintenance personnel, while others used them for training pilots for multi-engine flight and DC-3 type ratings. Even Embury-Riddle has possessed DC-3s for this use. Still, school spirit notwithstanding, an excellent salute to an excellent aircraft.



The wonderful Douglas DC-3 / C-47 is the subject of two recent books. The C-47 pictured here was the last of its type to be used by the National Aeronautics and Space Administration.

Peacey's book takes a different approach than Bowers', as it is a photo tribute to the "Dakota" (as the British call it). A few of the photos that appear here are also seen in Bowers'

book, but here they are reproduced much larger. This is a delight, as many deserve to be seen as large as possible.

Not all the photos are in color, and they need not be. A shot of a United DC-3 Mainliner on the ramp at night would not be as dramatic in color. But then the reverse is true of the portraits selected for color reproduction. A Royal Airforce Establishment Dakota over Berlin would not have the contrast, and the black

and yellow stripes of the South African Air Force target tug could not be so resplendent in a black and white photo.

All the variants may not be shown here, but the photos cover a wide-range: a profitable airliner leaving an airstrip in Kenya, to a "Gooney" sitting forlornly on a weedy ramp in the States.

Also shown are DC-3s with various fighter radar noses grafted on forward of the cockpit, turboprops sitting on the

wing where radials are normally seen and a host of other modifications.

Another great use of this book is that there are a multitude of photos that can be used to show one how aviation photography should be done.

Some might dismiss this as little more than a "coffee-table" book, but it is more, and it helps to show how nice a nice old lady really is.

### VISTOL built for two...

The first two-seat version of the McDonnell Douglas AV-8B Harrier II, the TAV-8B, makes its maiden flight above Missouri. The new jet

will be used by the U.S. Marine Corps to train pilots in the vertical and short takeoff and landing (VISTOL) AV-8B.

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## FedEx accepts new Cessna 208's

### Cessna Aircraft Company

WICHITA, KS — Federal Express Corp. has accepted the first "stretched" version of the Cessna Aircraft Company's Caravan I utility propjet.

FedEx founder and Chairman Fred Smith and other officials of the overnight delivery pioneer participated in the delivery ceremony in Wichita.

Seventy of the enlarged Caravan I's (Model 208B) will be added to the current Federal Express fleet of 39 of the original Model 208A cargo versions of the Caravan I. Ten aircraft will enter

service by the end of this year and deliveries will continue until the summer of 1990. FedEx also holds an option for 90 additional aircraft.

The Model 208B received FAA certification on October 9, only seven months after its first flight. It logged 200 hours in more than 150 flights during the certification program.

The new aircraft is four feet longer than the Model 208A and will carry a payload of 3,500 pounds in 450 cubic feet of cargo space, including a cargo pod under the fuselage. This compares to 3,000 pounds and 337

cubic feet in the original Federal Express model. Maximum useful load of 4,273 pounds is up from 3,777 pounds.

Federal Express took delivery of its first Caravan I in February of 1985 to launch an expansion of its overnight feeder operations to smaller cities. The big single-engine projects each fly up to 100 or more hours per month on roundtrip routes ranging from 90 to 1,400 miles in length.

Cessna has delivered more than 90 of the rugged Caravan I's to operators around the world since the first delivery in February of 1985.

## Piedmont expands at Charlotte

### Piedmont Airlines

CHARLOTTE, NC — Piedmont Airlines and the City of Charlotte jointly announced an expansion program that will make Douglas International Airport one of the nation's most efficient and attractive air service "hub" airports. Plans for the location of a major maintenance and training center for Piedmont here were also announced.

William R. Howard, President and Chief Executive Officer of Piedmont Aviation, Inc., parent corporation of Piedmont Airlines, and Charlotte Mayor Harvey B. Gantt together an-

### terminal building.

The total cost of the expansion program, to be financed under revenue bonds approved by North Carolina voters in the state's general election on November 4, will exceed 90 million dollars. This includes building of a new cargo and catering facility begun earlier at the former terminal building.

"When these facilities are all in place by late 1988," Howard said, "Piedmont will have a work force in Charlotte in excess of 4,000 employees and a payroll here in excess of 100 million annually. This expansion program is a major plus just for Pied-

mont, but it is also a major plus for the city and the state of North Carolina."

Howard said. He said Piedmont will have a total of 31 gates available at the airport by mid-1987, and the expanded terminal and people mover system ready for use in December, 1987. Of the 31 gates, six will be designed for widebody aircraft.

Piedmont passengers will have use of a second Presidential Suite for members of this program. An 80-foot-high control tower will be located between the two Piedmont concourses where specially trained Piedmont employees will be able to oversee a more efficient coordination of aircraft and ground vehicle movement in the terminal area.

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"In recent weeks, we have taken over most of Concourse B, in addition to our existing gates on Concourse A," Howard said. "We intend to link the existing Concourses together with a temporary passenger walkway. This will give us immediate short term capacity growth at Charlotte. We will also begin construction on an extension of Concourse B which will give us 15 gates on that Concourse, but won't be completed by June 1, 1987."

"At the same time, the existing terminal building will be extended 60 feet towards the Concourses to provide room for a retail mall and moving sidewalks that will link the two Piedmont

While not visible to the traveling public, the expansion will also give Piedmont 40,000 square feet of space for baggage make-up facilities for containerized baggage and cargo to use with the 767-200ER jet. In addition, Piedmont will install a computerized baggage make-up system in Charlotte.

Howard said the community will be able to take equal pride in the new 40 million operations and maintenance facility which will house a hangar capable of servicing three jet aircraft simultaneously, including two widebody 767's. Because Charlotte has become so central to Piedmont's system, the Company will also build a parts distribution center and a training center in the midfield area.

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## VSTOL built for two...

The first two-seat version of the McDonnell Douglas AV-8B Harrier II, the TAV-8B, makes its maiden flight above Missouri. The new jet

will be used by the U.S. Marine Corps to train pilots in the vertical and short takeoff and landing (VSTOL) AV-8B.

McDonnell Douglas photo

## FedEx accepts new Cessna 208's

### Cessna Aircraft Company

WICHITA, KS — Federal Express Corp. has accepted the first "stretched" version of the Cessna Aircraft Company's Caravan 1 utility propjet.

FedEx founder and Chairman Fred Smith and other officials of the overnight delivery pioneer participated in the delivery ceremony in Wichita.

Seventy of the enlarged Caravan 1's (Model 208B) will be added to the current Federal Express fleet of 39 of the original Model 208A cargo versions of the Caravan 1. Ten aircraft will enter

service by the end of this year and deliveries will continue until the summer of 1988. FedEx also holds an option for 90 additional aircraft.

The Model 208B received FAA certification on October 9, only seven months after its first flight. It logged 200 hours in more than 150 flights during the certification program.

The new aircraft is four feet longer than the Model 208A and will carry a payload of 3,500 pounds in 450 cubic feet of cargo space, including a cargo pod under the fuselage. This compares to 3,000 pounds and 337

cubic feet in the original Federal Express model. Maximum useful load of 4,273 pounds is up from 3,777 pounds.

Federal Express took delivery of its first Caravan 1 in February of 1985 to launch an expansion of its overnight feeder operations to smaller cities. The big single-engine propjets each fly up to 100 or more hours per month on roundtrip routes ranging from 90 to 1,400 miles in length.

Cessna has delivered more than 90 of the rugged Caravan 1's to operators around the world since the first delivery in February of 1985.

center for Piedmont here were also announced.

William R. Howard, President and Chief Executive Officer of Piedmont Aviation, Inc., parent corporation of Piedmont Airlines, and Charlotte Mayor Harvey B. Gantt, together announced an expansion of a second Piedmont Concourse at Charlotte's Douglas Airport that will give Piedmont a total of 31 gates, and a new maintenance hangar designed to handle a fleet of Boeing 767-200 Extended Range widebody aircraft ordered by Piedmont for delivery beginning in early 1987. Piedmont will also build a new parts distribution center and training facility at the airport.

In addition to the Facilities dedicated to Piedmont, the city announced an expansion and enhancement of the existing maintenance terminal, an area dedicated to Federal Inspection Services for international flights, and an expanded area for regional airline passengers and aircraft. The city also unveiled a plan to install a multiple level short term automobile parking facility at the

place by late 1988." Howard said, "Piedmont will have a work force in Charlotte in excess of 4,000 employees and a payroll here in excess of 100 million annually. This expansion program is a major plus not just for Piedmont, but for the greater Charlotte area and the state of North Carolina as well. We wanted very much to make this investment in our home state."

"In recent weeks, we have taken over most of Concourse B, in addition to our existing gates on Concourse C," Howard said. "We intend to link the existing Concourse together with a temporary passenger walkway. This will give us immediate short term capacity growth at Charlotte. We will also begin construction on an extension of Concourse B which will give us 15 gates on that Concourse when work is completed by June 1, 1987."

"At the same time, the existing terminal building will be extended 60 feet towards the Concourses to provide room for a retail mall and moving sidewalks that will link the two Piedmont

use of a second Presidential Suite Concourse of the program. An 80-foot-high control tower will be located between the two Piedmont concourses where specially trained Piedmont employees will be able to oversee a more efficient coordination of aircraft and ground vehicle movement in the terminal area.

While not visible to the traveling public, the expansion will also give Piedmont 40,000 square feet of space for baggage makeup and facilities for containerized baggage and cargo to use with the 767-200ER fleet. In addition, Piedmont will install a computerized baggage makeup system in Charlotte.

Howard said the community will be able to take equal pride in the new 40 million operations and maintenance facility which will house a hangar capable of servicing three jet aircraft simultaneously, including two widebody 767's. Because Charlotte has become so central to Piedmont's system, the Company will also build a parts distribution center and a training center in the midfield area.

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# Tethered satellite experiments planned for Shuttle

United States and Italian space programs co-sponsor research program for future space flights

Italo Zanin  
Special to the Avion

Tethered satellite systems evolved from ambitious concept studies during the last century and studies in the 1960s and 1970s. The U.S. space program and Aeritalia of Italy have begun systematically developing a tethered satellite system with applications in aerothermodynamics and electro-

rodynamics research. The concept of tethers in space involves the physical linking of bodies, by means of cables, into a common system in earth orbit.

The Russian scientist Tsolkovskii first proposed such a concept in 1895. It involved constructing a tower at the equator that would ascend to a height of 22,500 miles above the Earth's surface. He felt that gravity would be totally eliminated at this height.

Although this hypothetical tower was impossible to build, the idea was explored by other scientists until the mid 1970s. Italian professor Giuseppe Colombo proposed a tethered configuration for a gravity-gradient stabilized system that would orient itself longitudinally

with the Earth's gravitational field. Several applications have already been proposed for the system.

## Momentum scavenging

One proposed application involves the deployment and retrieval of satellites, platforms, or orbital transfer vehicles. These objects, when tethered, would form an orbital system in which energy and momentum are conserved. This is the basis of the momentum scavenging technique.

A satellite deployed from the Space Shuttle with a tether will orbit with respect to the new center of gravity. If the tether is severed, the satellite will rise to a higher orbit and the Shuttle will descend to a lower orbit (assuming the Shuttle's cargo bay to be facing away from the Earth). This is known as momentum scavenging.

A variant of this concept can be applied to systems of three or more bodies to simulate artificial gravity for a space station by means of an "elevator" platform that travels along the tether. By positioning the platform at known distances from the center of gravity, different gravity levels can be achieved, depending on the length of the tether, the longer the tether, the higher the artificial gravity level that can be achieved.

## Experiments proposed

Two proposed experiments are scheduled to fly on the Space Shuttle in the early 1990s. Tethered Satellite System 1 (TSS-1) will investigate electro-



Aeritalia artist's concept

Tethered Satellite System 1 will be deployed from the Space Shuttle to study electrodynamic effects of conducting tethers.

## Electrodynamics

TSS-1 will investigate the properties of the Earth's magnetosphere for the purposes of electromagnetic power generation and electrodynamic system stability.

The experiment will be conducted at an altitude of 220 kilometers above the Earth's surface. A tethered plasma collector will be deployed upward into the ionosphere while another plasma collector will remain mounted at the end of a 12 meter long boom in the Shuttle's cargo bay. The tethered collector will gather negative ions and shoot them down to the second collector through the long conducting tether.

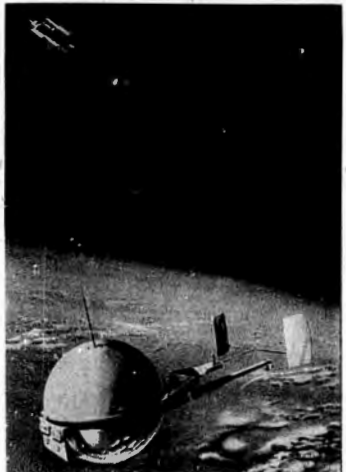
This configuration could be used to exchange electromagnetic drag to produce a current to power internal systems or for storage. By running a current through the tether, electromagnetic forces could be produced to stabilize and control the system.

## Aerothermodynamics

TSS-2 is designed to gather data concerning the chemical and thermal properties of the Earth's upper atmosphere.

The experiment consists of deploying a 100 kilometer long non-conducting tether that uses a satellite through the upper atmosphere to collect aerodynamic heating, heat transfer, and air density data. The satellite will be equipped with aerodynamic control surfaces for attitude control and maneuvering. Extensive data will be provided that, previously, could only be collected by rockets that sample the upper atmosphere for short periods of time and at discrete altitudes.

TSS-2 will be able to gather



Aeritalia artist's concept

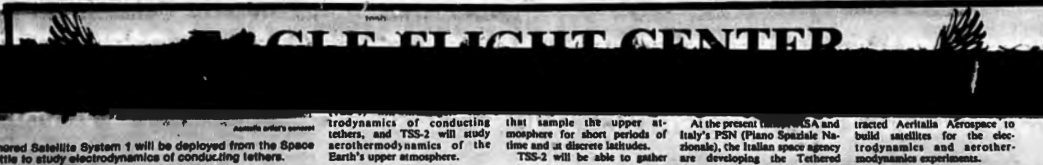
A tethered satellite will be lowered from the Shuttle into the Earth's upper atmosphere to collect data concerning the chemical and thermal properties at various altitudes.

data for about 40 hours and at different altitudes. Data collected can be applied to development of the National Aerospace Plane.

## International project

At the present time, NASA and Italy's PSN (Piano Spaziale Nazionale), the Italian space agency are developing the Tethered

Satellite System on a joint basis. Two contractors have been selected to develop the hardware for the program. NASA has contracted with Martin Marietta in Denver, Colorado to design and build the tether system. PSN contracted Aeritalia Aerospace to build satellites for the electrodynamic and aerothermodynamics experiments.



Tethered Satellite System 1 will be deployed from the Space Shuttle to study electrodynamic effects of conducting tethers.

rodynamics of conducting tethers, and TSS-2 will study aerothermodynamics of the Earth's upper atmosphere.

that sample the upper atmosphere for short periods of time and at discrete altitudes. TSS-2 will be able to gather

At the present time, NASA and Italy's PSN (Piano Spaziale Nazionale), the Italian space agency are developing the Tethered

contracted Aeritalia Aerospace to build satellites for the electrodynamic and aerothermodynamics experiments.



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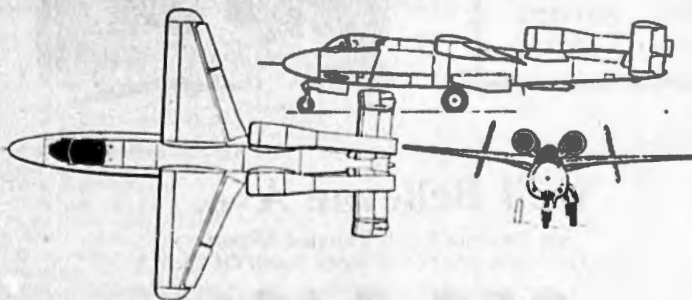




This picture was taken on the Daytona Beach Campus. It is of something or someplace in plain view of the discerning eye. If you think you know what or where it is, you can win a free Subscription to the *Avion*. Entries must be placed in the contest box in the *Avion* office, and be received by Friday at 5 p.m. In case of multiple correct answers, a winner will be drawn by the *Avion* photo editor.

Our congratulations go out to this week's winner, Richard Clark, who correctly identified the location of the Oct. 29 Where am I photo, which was the piping in the cooling tower in front of the University Center.

## AERO—PLANE IDENTIFICATION



THE FIRST EXACT ANSWER presented to the *AVION* of the identification of this aircraft will win a free one trimester subscription of the *AVION*, sent anywhere they want. The Student Publications staff, previous winners, and their families are not eligible.

that appeared in the *Avion* for most of 1969. And just for fun, we're printing it again for the pure enjoyment of reading it.)

Between the time of your freshman beanito and the time you graduate (after about 12 years at Riddle) you will surely come across innumerable true-false tests. They come in three basic styles: dumb, insane, and ridiculous.

A true-false test can be found in almost any course from Physics to Phys. Ed. (There is one down in a push-up. T or F?)

throughout the day. They are almost always retired bus drivers, hired to teach Modern Transportation Theory, or professional wino's hired to teach Contemporary Social Problems.

A true-false test is concerned with a space for your student number, truth with a correction for error, and justice with a curve for the yo-yo's in class.

If you take a true-false test you can't win. If you get a 95 everyone gets 100's and you fail. If everyone gets a ten, the instructor won't curve it (to teach a class a lesson), and if everyone gets 100

to give our students a 50-50 chance of passing (all you have to study is your name).

The instructor who gives a true-false test does so to give his slower student a (96.9 of the class) a chance to pass and give the administration the idea that he is doing his job (snowing them).

True-false tests increase an instructor's popularity among his poorer students and his chances of keeping a job. They always end like so:

Mr. \_\_\_\_\_ is the best instructor, T or F?

## Simon's 'Graceland' under fire

By Tim Riley  
CPS

Paul Simon's "Graceland," his best album ever, has caused a knee-jerk liberal backlash. Some of the most influential rock critics around are intent on dismissing the album's great virtues, mythic proportions and disarming musical intelligence because Simon, alas, was just not politically "correct" enough in these fervently anti-apartheid times.

To write "Graceland," of course, Simon trekked off to South America as a student to learn of regional rhythms and cultures. He returned to mix what he learned with his own heritage.

The Everly Brothers join Simon to sing the title track, a homage to Elvis Presley's mansion in Memphis, Tenn. Presley broke the color ban back in 1956 by making black rhythms accessible to a huge white audience, and his legend symbolizes the debt American music has to its black roots.

The opening words of the song neatly establish the record's mythical dimensions:

The Mississippi Delta was shining like a national guitar

I am following the river down

the highway

Through the cradle of the civil war...

For all the personal lyrics here, the album is really about racial integration in America and throughout the world. The musical symbolism couldn't be more incisive.

Simon unintentionally broke the United Nations cultural boycott of South Africa by recording some tracks there, a move he now wishes he could take back. But what's more important: the letter of the boycott, or the spirit? Shouldn't a boycott work for the artists instead of against them?

The critics however are mute when Ray Charles or Tina Turner, blacks who should know better, play Sun City.

The same fuss about political content in pop music surfaced when John Lennon flip-flopped on the issue of violent political change by singing "count me out, in" on "Revolution" back in 1968.

But if the Lennon debate was besides the point — the song has a moral message that's still worth pondering — condemning "Graceland," which never pretends to be anything but personal, for political insensitivity seems way off base.

Still, on "Graceland" Simon makes even the most personal lyrics politically evocative. When he compares Ronstadt's upbringing in the Arizona desert to singer Joseph Shabalala's childhood in Soweto, he's not in consigning either to a social class. He's celebrating the fact that what they both have in common is a voice with which to sign and celebrate life.

Similarly, on "The Myth of Fingerprints," Simon closes the album with the story of a forgotten talk show host, Jack Paar who could be anybody. The image of the title tells us that it's not our fingerprints what make us unique, it's what we have in common.

These are not exactly pro-apartheid messages.

They run through the album, and cast all the critics' rigid accusations that Simon somehow has sold out to or ignored South African oppression in a bizarre light.

Simon's crime seems to be that he failed to confirm somebody else's political viewpoints. That never works, and it never will. "Graceland" deserves to be judged on its own terms.

# AFROTC

Air Force ROTC  
Public Affairs Staff

The fall trimester will be soon coming to an end, but this does not mean it is time to let down your guard and drop your performance level in AFROTC and the academic world. The close of November and the beginning of December will be a busy time for all AFROTC cadets.

In this week's lab, the promotion test will be given by the education staff, so do not forget to study your cadet handbook and current events. The drill competition and the I.C. inspections will also be given this week.

The Dining-Out tickets are on sale in the Det. at a cost of one dollar for cadets and 15 dollars for guests. Tickets for the traditional Boat Cruise after Dining-Out will be on sale from this week until Dining-Out. The cost will be ten dollars. All cadets are invited to attend and to bring proper ID. The cruise will be three hours

## Air Force Reserve Officer Training Corps

down the beautiful Halifax River. Ski Night will be tonight in the U.C. Come make fun of your fellow cadets and see them make fun of themselves.

Promotion recommendations are due by 1630 on the 21st of Nov. There will be an aircraft carrier tour of the USS Saratoga also on the 21st. All cadets who did sign-up make sure you show up at 0800 at the bridge.

Pass-in-Review practice and Commanders Cup will be on Sat. the 22nd of Nov. Everything begins at 0730 - be there or be square! Commander's Cup will consist of such challenging events as the Top-of-War, Dizzy Day, Sprint Relay, Volleyball, Soda Relay, Egg Toss, and Ironman.

The Golf Tournament is set and ready to go! All would-be golfers meet at Daytona Beach Golf Course at 0830 for an interesting day of "sacking away."

IMPORTANT NOTICE: There will be a briefing on the A-10 procurement and operation

by Colonel Babos on Monday the 24th. This briefing will take the place of that week's lab. All cadets are required to attend. This is your lab for the Thanksgiving Holidays.

Remember that 907's and 707's are due the 24th without endorsements and on the 1st of December with endorsements. Be sure that all evaluations are of the proper form.

We are all hoping for a speedy recovery to John P. Daly. He was recently hit by a car while walking down the road. Good Luck!

Congratulations to Colonel Babos! The German Federal Minister of Defense has awarded him the "Armed Forces Commendation Cross in Silver". The award was presented to the colonel by Brigadier General Hans-Joachim Griese of the German Air Force. The award was presented to Col. Babos for his meritorious service rendered especially to the German Air Force by conducting the Euro NATO Joint Jet Pilot Training at Sheppard AFB, TX.



Aeronautics by T. H. H. H.

## Have I got a bargain for you...

This Air Force T-38, sporting a for sale sign just below the cockpit, sits on the Embury-Riddle Aeronautical University tarmac near the Aviation Maintenance Technology

buildings. The aircraft, which serves as the Air Force's primary jet trainer was flown to the University by Brigadier General Hans-Joachim Griese of the West German Air Force.

# SENIOR

## Senior Class Council

By Gautam H. Shah  
Council Writer

The Senior Class Council has finalized decisions on both the class project and class party.

The Fall 1986 class's gift to the University will be a hardwood sign on the new Catalina Ave. entrance to the school. Construction has already commenced, and the completed sign should be in place before the end of the trimester.

The Class Party will be at the Plantation Club on Thursday, Dec. 11 (the last day of final exams). Details on times, tickets, et

ceters will be forthcoming. Let's have a good turn out for our final get-together before graduation!

Projects and parties cost money, and the Council continues to solicit help from all students to assist in fund raisers. Sign-up sheets are in the Student Activities Office. A booth has been secured at the Daytona Plea Market for the weekend of Nov. 22. For anyone wishing to donate furnishings and other belongings, a table will be set up in the U.C. on Thursday and Friday, Nov. 20 and 21 from 1 to 5 p.m. Also, seniors who have books that they are no longer using should con-

sider donating them to the Council. Proceeds from all fund raisers will help pay for the project and the party. In addition to fund raisers, direct donations from students will be most helpful. With less than one month to go, the time to raise the necessary funds is growing short. Any help would be greatly appreciated.

One final note — the second meeting for all graduation seniors is on Nov. 22 in the U.C. at 8 p.m. Everyone should attend. There are three weeks left in the trimester, so let's make them as productive as possible!

# Theta Phi Alpha

Francesca Lewis  
Chapter Editor

The sisters took Mr. Riddle out to the Olive Garden on Oct. 22. We had a very interesting conversation and look forward to seeing him again.

The Rape Crisis Talk that the sorority sponsored on Nov. 5 went very well and was an informative event to all who attended. Thanks goes to Krista Martin for organizing it!

The sisters had an enjoyable time at the "Picnic in the Park." The sisters, pledges, and friends went to Blue Springs on Sunday, Nov. 9. Some of us snorkeled, canoe or just took a dip. Looked like Nancy enjoyed canoeing — something new to her! "Is that a canoe?" Nancy also had a fun time with the pledges that night...Right, Nancy?! Thanks to Alpha Eta Rho for inviting us to their house warming party. We had a good time guys!

Again, look out for us in the U.C. with the Organ Donor Booth on Nov. 19.

Congratulations go to Heather Barrett for being accepted to Who? Whot! Good job Heather! Also, congratulations to Nancy Gutierrez for being a star SGA!! The sisters are looking forward to partying with Lambda Chi Alpha on the 21st!! Happy Birthday to Jennifer Johnston. Her birthday was on the seventh.

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# RIDDLE RIDERS

By Eric Woolie  
Club Spokesman

By the time this letter goes to print, the Third Annual Riddle Riders Road Rally will be history. If the weeks of preparation leading up to last Sunday's event were any indication, it will have been the most successful achievement in the club's history. As well as a lucrative fund raiser for the Motorcycle Safety Advisory Council.

For those who were part of the planning phase, it was like working for a political campaign. Just ask all the people who addressed, stuffed and licked 400 envelopes at the last meeting. An "attaboy" to all involved.

The previous Sunday's ride attracted six bikes and seven riders thanks to Skiman's shoeing

abilities. Our destination was the University of Florida in Gainesville to see how the "other half" lives.

The popping, clanking rumble of Harley's was noticeably absent as neither President Skimmerhor, Mr. Clean, nor Lizard was able to join us. The spirit of the Harley was with us, however, as Gene's Maxim developed a sudden thirt for oil. The task of leading the group fell on our secretary, Flash, despite some questionable navigational skills.

After lunch at Joe's Deli, a brief walking tour of the U. of F. revealed some interesting aspects of their campus life. For instance, no speed bumps, dorms that don't look like prison cells or roach motels, a student paper that's published daily and a library that looks like a library.

School spirit? Everywhere we looked it was Gators this and Gators that. You'd think they'd just beaten the Bulldogs or something.

On the return trip, we had some difficulty getting Milkman to go and "kiman to stop. One "Club Candelone" (The quote that the Riddle Riders wished to print was not because it was not proper journalistic style — Ed.) goes to Durlap, whose Sabre lost its virginity when it kissed the pavement of U.S. 1 near the I-95 interchange. Those pebbles will get you every time.

The road portion of the rider safety course will be this Sunday at Spruce Creek High School. Meeting time at the triangle will be announced.

All are invited to attend. Ride aware — show you care.

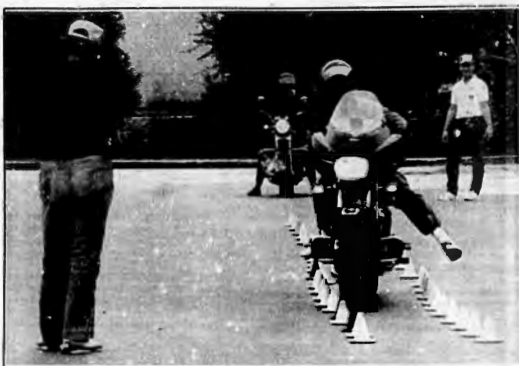


Photo by Richard Clark

Whoa!!!!

Headed for disaster, this motorcyclist is about to have an encounter with a safety cone during the Motorcycle Safety Advisory Council's road test last Saturday.

ing the Motorcycle Safety Advisory Council's road test last Saturday.

## AHP Alpha Eta Rho

By Geoff Waxman  
AHP Writer

Well, we've finally moved into our new fraternity house and things couldn't be better. The events we've held at the house have all been a great success. The brothers feel like this fraternity has been re-born. This house offers us everything we could want and more. Even more, we have a great bunch of neighbors that we're looking forward to hanging with. Jim Howe and Mike Schuster were elected as house managers who are doing a great job.

AHP held a party for over 300 people last weekend which followed the incredible ERAU NIFA win. Dan Ferracchio, Joe Elm, Emma-Jane McDonald, Colin Asken, Joe Pastina, and Chris Ford all participated in the meet. Thumbs Up Guys!

Guilford Tech, F.I.T., Auburn State, Middle Tennessee State, Miami Dade North, Broward Community College were hosted by the ERAU Precision Flight Team at the Daytona Beach Airport. Over ten kegs were killed at the party and the brothers had a blast meeting other AHP members. Thanks F.I.T. for the plaque, it's now hanging by our bar!

AHP had an excellent season in football. No matter what our standings were, our sidelines were always full of brothers and friends. The fraternity rallied behind them throughout the season, and is proud of their performance. The nucleus would like to thank the protons and the neutrons of the defense. How about setting a date for a Pledge/Brother Tackle Football game?

Those of you who made it past third interviews, we congratulate you. You're really an excellent group of aviation minded guys. Our fraternity is psyched to have you guys as brothers, you'll soon realize that it's worth the wait. Beta Alpha Pledge class did some creative painting up in Ormond, and painted a cool AHP plaque. Brotherhood improvement week is from the 17th to the 21st of November and we're all looking forward to it. Bon Chance!

President Harold S. Wood from the Alpha Eta Rho National Board of Directors came to visit our house at 517 Ridgewood. We're glad he flew in from San Diego to visit the first AHP fraternity house.

See AHP, page 10

## NAVAL Aviation Club

By Kelly Childs  
Club Writer

There has been widespread controversy as to whether the Navy should build new, technologically advanced carriers, service the old ones or just put the budget money elsewhere.

Presently, there exists 15 carrier battle groups including the Abraham Lincoln (CVN-72), George Washington (CVN-73), and the Theodore Roosevelt (CVN-71). In order to keep up military defense, the Navy will continue to commission nuclear powered aircraft carriers (CVN) until the 1990s.

These carriers have useful lives of 40 years or longer. The Navy

also has an ongoing service life extension program (SLEP) which adds 10-15 years of service to a carrier.

The controversy is in the belief that the carrier will soon be outdated much like the steam driven ironclads and dreadnoughts of yesteryears. They are not sure what will replace it, but its challengers include nuclear powered submarines, land based aircraft and long range, smart missiles.

One potential replacement is the V/STOL or Vertical/Short Takeoff and Landing carriers. Harriers are deployed from these ships which are also referred to as surface effect or SWATH (Small Waterplane Area Twin Hull) ships.

Although the basic structure of the aircraft carrier has not changed there have been numerous advances within and around it. For example, nuclear propulsion, supersonic jet aircraft, and electronic warfare. The Navy is designing advanced naval platforms and aircraft, and making advances in areas of anti-air, anti-submarine, and antisurface warfare.

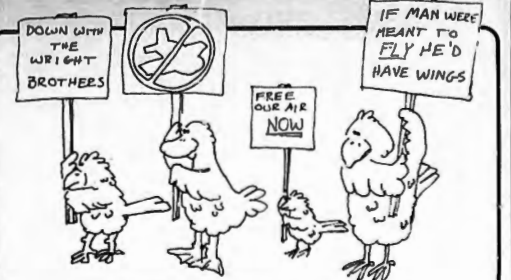
Although the U.S. Navy's programs and plans are under continuous review, one significant consideration should not be overlooked: the nation's taxpayers. Are they willing to fund a new unproven design and in their minds risk weakening the defense of the country.



Chris Looking for a ride, and Chris Ford all participated in the meet. Thumbs Up Guys!

about setting a date for a Pledge/Brother Tackle Football game?

See AHP, page 10



"The Student's Guide to Campus Life at ERAU"

Bill Myers' satirical look at student life

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# ROA Reserve Officers Association

By Jeff Silver  
Public Affairs Officer

The ROA is in a serious planning mode for a good amount of field trips and tours forecasted to occur in the spring semester of '87. Some of the possible events are tours on naval vessels, but with local guard units and a rappelling exercise over at Sussex University. If you have any ideas in mind, please leave a note in my box (Jeff Silver, #341).

Last Saturday, a dozen highly motivated cadets from the ROA got together to help out the special olympics with their bowling tournament. The cadets kept score, presented medals and made sure the olympians didn't bowl down people. Special thanks to all the cadets that participated (you guys did a great job!!).  
The ROA will be having a book exchange soon. Instead of paying book store prices, all the

ROA cadets will get together and sell or exchange books with one another. This will certainly be a good way to save some good money, (that now can be spent on some good beer!). More details will be given at our next meeting. Check the board in the U.C. for date and time.  
Remember, any cadets with ideas, comments, questions or feedback on anything, feel free to rap with any of the officers.

# ΣΠ Sigma Pi

By Doug Brooks  
Sigma Pi Herald

The avid Sigma Pi article reader probably noticed the lack of an article in last week's paper. Well, have no fear because it's back this week with more of the same exciting, earth shattering news you've grown used to.

Last weekend, as usual, was a very busy time for the brothers of Sigma Pi. It was mostly taken up with a chapter trip to Gainesville for a going away party for our area director, Dean Housler. We would all like to wish him luck on his move to Indiana.  
Not only was the party a lot of fun, but the Qator football team won, so the entire town was a hopping place.

Thank's go out to our brothers at Gainesville for letting us stay at their house all weekend. It's too bad they didn't come up with the chorus line for the party, maybe next time.  
Sigma Pi's pledge class has also been very active. They have been working on a Sigma Pi plaque that will soon immortalize the U.C. and a banner that will go in the Eagles Nest.



In the Heat...

Daytona Beach Firefighters check beneath a car that experienced brake problems en-route to the university last Wednesday. The driver, William Crow, noticed smoke coming from underneath the rear tires as he pulled up in front of the University Center. Crow was helped by Arman Torsini and University Security who quickly cleared the area.

# SCUBA Scuba Club

By Jason Crouse  
Vice President

The club is back again and is already growing. Every meeting we see new faces, those that are certified and those that wish to learn more.  
Last Monday, Nov. 10, the final plans for a Crystal River dive on Nov. 15 were finalized. Plans for a Thanksgiving weekend dive trip to the Keys is in the making. At the moment, there are about eight students

planning on attending. It will be a very affordable dive. If time permits there will be a Bahamas trip and possibly a Southern Carolina dive if weather permits. But we need involvement. Don't stop by once and say, "Ah, they're not doing anything." The more student actively involved in the club the cheaper these trips will become.  
The club meets every Monday night at 7 p.m. in room E-603. If the room changes, it will be posted.

# ΣΧ Sigma Chi

By Steve Avakian  
Chapter Editor

Sigma Chi's pledge program is going very well this trimester. We currently have 24 motivated men working toward becoming Brothers, and 13 new Little Sigmas. We wish these men, and ladies, well.  
The Sigma Chi White Rose Ball was also held on Saturday Nov. 8, where our new Sweetheart for 1986-87 was announced. A big congratulations

goes to Carolyn Wreier for her dedicated service to the chapter. All of the Brothers are very proud of her and wish her the best of luck during the coming year.  
Many alumni returned to participate in the White Rose as well. The brothers appreciated their attendance and hope to see them again soon. A special thanks goes to Alumnus John Wrightington for the refreshments served prior to the Ball at the "Sigma Chi Country Club".

# ΛΧΑ Lambda Chi Alpha

By Tommy Lyons  
Chapter Writer

The brothers of Lambda Chi Alpha would like to congratulate our newly initiated brothers. We wish them the best of luck!  
Congratulations are due to our ritualist Robert Flynn and his staff: Eric Sherman, Mark Wysocki and Robert Ricci for an excellent ritual.  
Last week's pre-initiation events went very well. Our new initiates received instruction on

the meaning of brotherhood, ideals and various symbols used within our fraternity.  
We are proud of you guys; your enthusiasm, dedication and initiative was most admirable. We are proud to call you our brothers. We wish all of the best of luck as brothers and remind you that we are here for you guys. May we all grow together as brothers of the bond as we strive for excellence in our search for the perfect brotherly love.

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Ball was also held on Saturday Nov. 8, where our new Sweetheart for 1986-87 was announced. A big congratulations

to Alumnus John Wrightington for the refreshments served prior to the Ball at the "Sigma Chi Country Club".

Wreier ritual, Last week's pre-initiation events went very well. Our new initiates received instruction on

you that we are here for you guys. May we all grow together as brothers of the bond as we strive for excellence in our search for the perfect brotherly love.

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# AVIONICS

Avionics  
Club

By Mike Diggs  
Club Writer

The Avionics Club has postponed its field trip to Jacksonville Center until Jan. 1987. The visit will include observation of their control operations, the electronics repair station and as employee of the FAA will be on hand to discuss

employment opportunities with the government.

The trip will be an all day event and is tentatively scheduled for the last weekend in Jan. The club as well as any field trip is open to all students and faculty. If you wish to attend or would like more information, please contact Mike Diggs at box 1023.

## AHP

Alpha  
Eta Rho

(continued from page 8)

Notes of Interest: Nugget smokes Fly-by-night and says "Don't get mad Dave". Good luck Bush Boys, Jackie Warner is now working for Piedmont at Daytona Beach Airport, Dan F. looked ravishing at the Halloween party and won the safety award for the team at the same time, John Stanton had a cook-out at the house which was well appreciated, Dave Hultine is still in College, Danny Partridge - go

flod Reuben, Theta Phi president hung out in the closet, EJM is now in engineering, the gate of perversity was named the Crew's Quarters, George is no longer a virgin driver, better luck next time to those of you who attempted to take Betty on a goe ride, Rockettes are in town, Brad and Keith take a bath, Softball is coming, How do say "Black guys can get trian during the day, while white guys are out burning their dogs off."

# LETTER

(continued from page 3)

## More Advice?

To the Editor,

I would like to comment on the advice given in this school of fers. Rec. a. y I spoke with my advisor, Mr. Rogers, about my courses for next trimester. I was rather surprised and somewhat angered at what he told me.

Mr. Rogers took it upon himself to inform me that I should "consider dropping out of school and go home." He also said that he thought I did very poorly in high school and that this was the only school that accepted me.

Are these the kinds of things that advisors are supposed to tell their students? I seriously wonder. It also angers me to know that he has been telling many of the students under his advisement the same thing, that they won't make it in computer science and that they should give up.

This isn't right and frankly I wonder how many students have been told this and took his "advice". Sorry to disappoint you Mr. Rogers but I'm not going to give up that easily!

John Trombly  
Box 8243

## Correction

In volume 34, issue 10 of the Avion the Alpha Eta Rho fraternity's article was inadvertently run under a Lambda Chi Alpha headline.

# HU-305 to concentrate on aviation-related literature

Literature dealing with aviation is the focus of the Modern Literature course, HU-305, offered this spring and taught by Prof. Roger Osterholm.

It will feature poets and other writers, like Antoine de Saint-Exupery, William Faulkner and Tom Wolfe, and will relate their books to modern themes and other literary traits.

Dr. Osterholm has not offered the course for two years, but he hopes to offer a section once a year in the future. He said, "Every pilot and anyone else in aviation should be aware of these modern literary masters and ap-

preciate their styles and their aviation themes."

He noted that the great poetry of Randall Jarrell on the Eighth Air Force in England during World War II will also be examined as modern poetry.

The course will meet Tuesdays and Thursdays at 3 p.m.

Professor Osterholm has flown jets in the U.S. Air Force in the early 1960's and has long studied aviation literature and films. Two years ago he gave a talk on aviation films at a conference at Florida State University in Tallahassee.

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- About a week before your birthday.
- When you just want to tell them you miss them, and that you ate the last of Grandma's

- Five minutes into "The Lawrence Welk Show"
- About a week before your birthday.
- When you just want to tell them you miss them, and that you ate the last of Grandma's chocolate-chip cookies this morning.

There's nothing grandparents like better than a call from a grandchild in college. But if you do accidentally happen to interrupt Lawrence, you ought to have something worth telling them.

For example, you could mention that you called using AT&T Long Distance Service because you can depend on AT&T's high quality service and exceptional value.

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Finally, of course, you should quickly reassure them that you're eating enough, then let them hurry back to the TV to catch the rest of the Lennon Sisters' Blue Oyster Cult Medley.



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# NOTICES

## December Graduates

The last meeting for all Dec. Graduates will be held in the U.C. on Tuesday, Nov. 19 at 8 p.m. Graduation information will be reviewed at that time and voting for the Outstanding Faculty Awards will take place as well. You are highly encouraged to attend this meeting. If you are unable to do so, please stop by the Student Activities Office. In accordance with the University policy, as stated in the Graduation Requirements section of the Embry-Riddle Aeronautical University Catalog, effective immediately all students will be required to have successfully completed all of the required courses and financial obligations before they will be allowed to participate in graduation ceremonies. This includes all degree required flight courses. A student's last flight course must be completed prior to the date and time that senior grades are due in the Office of Registration and Records in order for that student to participate in that graduation ceremony. Students completing any required courses (flight or academic) after that time will be eligible to participate in the next graduation ceremony. Those students completing after the specified deadline will follow the schedule below for ceremony participation. If a prospective employer requests an official transcript for a job interview, we must have a written request from you before that information can be released. Remember that official and unofficial transcripts require financial clearance. Official transcripts are \$2 per copy.

## April 1987 Graduates

April graduation applications are now being accepted in the Registration and Records Office for those students anticipating April degree completion. Each student will be given a preliminary graduation evaluation in order to help prepare for a smooth degree completion. Any adjustment to one's registration can be done during the open or regular add/drop period.

## Career Center Events: Interviews

Pan Am will be interviewing Nov. 20 for Avionics Technicians to work at JFK International Airport in Jamaica, NY. Requires a FCC License and must have your degree or be graduating in December. Sign up now in the Career Center.

Hudor General Aviation Services will be interviewing on campus for Management Trainees on Dec. 4 and 5. Requires a BS in Aviation Management/Aviation Administration, and a minimum GPA of 3.0. They will be prescreening resumes. Interested students should bring their resume to the Career Center no later than Nov. 20.

The FAA will be recruiting on campus for the people in the following programs: BS/MS in Aeronautical Science, Air Studies, Aviation Technology, Aviation Administration, Aviation Management, AMM, and Professional Aeronautics. Sign up for interviews will be from Nov. 10, 1986 to January 5, 1987. Interviews will be January 13 thru 16, 1987. SIGN UP NOW in the Career Center.

The Career Center will have minimal services Dec. 1 through 12 due to remodeling. There will, however, be someone answering the phones and providing information to students.

## Thanksgiving Break Hours

Jack R. Hunt Memorial Library  
Wednesday, Nov. 26 the library will be open 7:30 a.m. to 5 p.m. Thursday and Friday, Nov. 27 and 28 the library will be closed. Saturday and Sunday, Nov. 29 and 30 the library will return to its regular hours.

PC Lab  
The IBM PC Lab will be closed Thanksgiving day out will be open regular hours Friday, Saturday and Sunday.

## Leadership and Involvement award

The Student Government Assoc. is accepting nominees for the Leadership and Involvement Award for the Dec. 1986 Graduating Class. The application will be available in the SGA Office through Wednesday, Nov. 26. If you or someone you know has been heavily involved in fraternities, clubs or organizations on or off campus, as a leader or participant, you may be eligible for this award. The presentation of this award is made at the Friday Night Graduation Social, Dec. 12, at the SGA President. Apply now!

## Computer Science Majors

Computer Science Majors are urged to attend a meeting Friday, Nov. 21 from 1:30 to 2:35 p.m. in room C-415.

Information on enhancing your employment: potential, career opportunities, co-op opportunities that help you pay for part of your education, and student honor society and professional organizations. During the question and answer period, specific questions will be addressed.

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### Accommodations

**FEMALE ROOMMATE NEEDED** - 2 bedrooms, 2 bath apartment. Close to school, 1/2 utilities. \$205 month. Call Beth after 5 p.m. 255-2861.

**NEED A ROOMMATE?** - Clean, responsible, male looking for a room for spring fall. Call collect (516) 733-6584 for info.

**NEED ROOMMATE FOR HOUSE IN PORT ORANGE** - Fully furnished, rent is \$110 and a security deposit is \$250. You pay for portion of electric, water, and phone. Call evenings after 6 p.m. and ask for Joe. Please only non-smokers need call.

**ROOMMATE WANTED** - To share 3 bedrooms, 2 bath apartment, pool, central, laundry, at 873 Deerfield. Bargain apartments apt. 286, 2 1/2 miles from ERAU. Only \$140 per month plus 1/2 cable, electric, \$150 deposit required. Contact Dave Soto, Martha Calabrese, or Jocelyn Smith at 255-2551 from 10 am - 1 p.m. or after 5 p.m.

**BEACHSIDE NEAR BELLEAIR** - Is 3 bedrooms, 3 1/2 bath, 1 1/2 bath, 1/2 furnished. Large yard, children's pool. Call c.n. at 1173 or 253-9977.

**MALE OR FEMALE ROOMMATE NEEDED IMMEDIATELY** - For a very roomy, clean house 1 block from the beach, washer/dryer and stove. No neighborhood, 5 miles from school. \$125/month plus 1/2 utilities. Call 251-5483.

**ROOMMATE WANTED** - Own room furnished with en-suite and deck. 1 1/2 miles to school (2 min DRIVE or 10 min. walk) \$141.00 rent plus 1/2 utilities available Dec. 15-30/87. Call Scott at 251-7663 or box 4148.

**ROOM AVAILABLE** - clean, quiet, beautiful room with bath, \$180 includes utilities. Litchen out also sheets, pillow, blankets. \$100 security deposit. Pleasant cool place, very private, no smokers please. Call anytime 258-7901.

**ROOMMATE WANTED** - 2 bedroom, 1 bath furnished apartment. Located 1 mile from ERAU in good beachside location. Prefer female but will consider responsible male. Non-smokers please! \$200 month - 1/2 utilities. No deposit, no lease contract. See box 5032 or leave message at 254-2710.

**FEMALE ROOMMATE WANTED** - To share 3 bedrooms, 2 bath, apt only - 1/2 miles from school. \$130 per month plus 1/2 utilities. \$130 deposit required. Available December 15. Contact Suite at 252-1097 or box 2531.

**GOING TO NEW YORK FOR THANKSGIVING?** I need people to fly with me on a discount round-trip. Round trip to NY, or to places on that way, for a very good price. Leaving Wednesday. Very qualified pilot with over 200 hrs. Instrument. Contact Chris Nicholson, ERAU box 6151.

### Personals

**YO, PUERTO RICK TYPES.** We moved in after great preparation and debating on whether WE are good enough to move for YOU. Our first bar on demand... "I give us all your beer, 2 give us a check and little sister's only money, 4 give us your surf boards and my jet ski parts, and 5 give us some cash, so WE may become a real Fraternal like VOH" some day. You will get nothing in return except our special love. Our little sisters THE CUTE ONES, and MAYBE our house, this is as far as we will ever go - you are getting a bargain!! LOVE, PIES, LANCE LUCK (SECRET CHIMPY OF THE NEW KIDS ON THE BLOCK)

**HEY KID,** You're lucky the building inspector held out for more money, otherwise we would have had you writing in the dark till next Halloween! Just a friendly warning: Stay in law, because it's not over yet! We'll have your place turned into lawyer's office in an instant! Have a nice day. SPUDS FOR A CLEANER RIGWOOD

**TO THE GIRL WITH THE BLACK HAIR** WE ALWAYS REMIND A RED TIE-SPREAD.

**MAIL ME** get great legs!! I would like to go to know more than that if you're willing. IN AWE

**NEE,** I'm sure I'll be home before she reaches you, but so what? Herbie's a little guy about not getting the "bookie" such is his I suppose. We'll have to be more he gets one over the "bookie". I sure don't want to get him spot, he talks me he's been working on the aim, have to rest that out...

**MICHAEL J.** I love you more today than yesterday, LOVE, SUZANNE

**PEGGY,** Ever you're busy and I'm free or I'm busy and you're free. Then we are together we have a great weekend. We must try to get together ALONE to talk. Please walk on the beach with me. One check in our room. Hey, smile a little, I'll always love you!!

**THE BIG GUY WITH A HEART**

**SPARKLE,** I love you more ICE! SLATS

**BO DANCING,** Friday night wasn't as peaceful as last Tuesday. I hope! We should have buffed it at the Whitehall - even with the police around. The road trips have been great, but please don't forget my shoes when you go back! The same one - Bonson on the 21st! I feel the same "you do" "BIG TIME"

**NIGHTMARE,** You and the light music: "What are friends REALLY for?" Thanks for the song by "Wham". LOVE, PINK MINISKIRT (TEARAW)

**EARTH 'ANGEL' FROM JERSEY,** How did you like the contest? I wrote on the "Intermission Day" I'd really like to see you again. Let's get together soon. Please give me a call sometime. SINCERELY, A.M.

**ON LACK,** Hurry up and buy a motorboat so we can pack up a motorboat much big deal of PPO's and month and venture into the waters of uncharted seas, the treacherous non-moving trees, and the dreaded sand worms.

**ITWO, AKA: LUCITER** power.

**P.S. Bye Yammies...**

**Half Pint,** Since I'm always getting involved in more things than I should, I really appreciate the way you send your fingers to help me. Hope you enjoy the remembrance.

**TOM,** Your back massages are great!! Let's do it again...oooo! BEANER

**ICE,** Sorry (two-hat) about the incident with the maid. But, what was I to do? Tell her that I didn't see vacuum. Are you crazy? I saw what she was doing to you. I may be a worm, but I'm a smart dad (inaccurate) about you. Please, it serves you right for running on air. I owe you one, though.

**Half Pint,** Don't be depressed. It ain't the end of the world. Remember, behind every cloud there is a silver lining. Gucca Who.

**THE CAPTAIN**

**Half Pint,** I received your letter and took care of it too. You said "out of your life" "in awful at the moment." You know, you could always visit a certain person, relax, catch up on some sleep, have some coffee and ice cream. Does that tickle your fancy to speak...?

**THE NEW KIDS ON THE BLOCK.** I had a wonderful time in your state!! I want to do it again and again!! I want to be your slave of passion and lust!! I wish I could be a little sister I do not want my sister to experience any fantastic time they would want to "Have it All". On party please, do it again and bring the house. I love "howling plans!" LOVE, KISSER, HUGGS, AND HAND- CUFFS, NANCY, MISTRESS OF DOMINATION AND PAIN

**NANCY,** I wish I knew that you liked being tied up and handcuffed, you wild woman!! I found out about you after your headshot, or else I would have played "wilder" with you!! I have a great night wild and how to use it...uh, if you are too...to be handcuffed in the state!! I can't use, could you send Jennifer or Beth? They look pretty hot for something like this, back, and all your sister and plegen and we will get them into the "Glee" spirit. I was relaxing before when I could have been loading something else; so call me the next time you feel like it's stronger than you!!

**SOME OF LOVE, ONE OF THE NEW KIDS ON THE BLOCK**

**DADDY,** I can't wait to meet you. Just think, only two more years!!

**YOUR LIL HORROR**

**D.F.** I haven't forgotten about you - honest! I still don't get notes anymore.

**I received your letter and took care of it too. You said "out of your life" "in awful at the moment." You know, you could always visit a certain person, relax, catch up on some sleep, have some coffee and ice cream. Does that tickle your fancy to speak...?**

**NI/FL BF**

## Quadruple fights state over toll booth payments

**ORLANDO, Fla. (AP)** A protesting quadruple who drove through toll booths without paying is on her way to winning a statewide victory for other handicapped drivers who are unable to throw coins into a basket. Beverly Chapman's month-long boycott of toll plazas on the East-West Expressway paid off Wednesday when the Orlando Orange County Expressway Authority voted to start a mon-

thly prepayment system for handicapped drivers. And the state Coordinating Council for the Transportation Disadvantaged is drafting a bill to expand the sticker system to all toll roads in the state, said council director JoAnn Hutchinson. "I'm so excited. It's the most incredible victory," Ms. Chapman said Wednesday. "I'm convinced that this only became a priority because of the boycott

and community attention." The Orange County sticker system starts Dec. 1. The authority will sell window stickers to physically handicapped drivers who have difficulty tossing coins into toll baskets or paying toll attendants. The stickers will be good for six months and the cost will be based on the driver's estimated monthly use of the toll road. Although technology has

allowed handicapped people to drive using vans equipped with hand levers for accelerating and braking, many still lack the dexterity to roll down windows and pay tolls. A wheelchair-bound victim of muscular dystrophy whose hands are partly paralyzed, Ms. Chapman said it is too hard for disabled drivers to toss coins into unattended collection baskets or to hand them to toll attendants.

She suggested the sticker system in a Sept. 10 letter to Bill Gwynn, the Expressway Authority's executive director. When Gwynn responded that solving the problem wasn't the authority's "top priority," Ms. Chapman wrote another letter saying she would boycott the toll plazas until he took action. She sent him a \$10 check to cover her use of the expressway for October and began driving

through the toll plazas without stopping. Although the news was tickled by police for failing to stop and pay, Ms. Chapman said "every time I ran through, I felt like I was doing something wrong." After reporters asked Gwynn about the case, he organized a meeting with Ms. Chapman and the appropriate state and local agencies to work out a solution.

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# ERAU Runners compete in Florida meet

Avion Football Pool

Dash 710%		The Greek 710%	
★ LA Raiders	at	San Diego	
Buffalo	at	New England	★
Dallas	at	Washington	★
★ Denver	at	NY Giants	✓
✓ Detroit	at	Tampa Bay	★
Green Bay	at	Chicago	★
Indianapolis	at	Houston	★
Atlanta	at	San Francisco	★
★ Kansas City	at	St. Louis	
✓ Minnesota	at	Cincinnati	★
✓ New Orleans	at	LA Rams	★
Philly	at	Seattle	★
Pittsburgh	at	Cleveland	★
Dash picks		The Greek picks	

**TIEBREAKER:** Predict the score of any one game above. List teams with score.

NAME:  
ERAU BOX:

By Rob Glascock  
Team Captain

For the second time this trimester, ERAU's Cross-Country Team took to the roads. This time competing in the Florida Invitational held at Gainesville, Fla. Over 250 runners making up 31 teams competed in Florida's most prestigious meet. The University of Florida was able to hold off Auburn to win the overall meet and take the NCAA open division. Loyola University, down from Chicago, nudged out Georgia Tech for third overall while Florida state rounded out the top five. Troy State dominated the independent school/junior college division beating Florida International University, their closest competitor, by over 200 points. Out of the 31 teams, ERAU was able to place 22nd overall and 12th out of 18 in the independent school/junior college division.

The ERAU team was led by Rob Glascock, who finished the grueling five mile race in 31:15, placing 180 overall. Close on his heels was Rick Reese, who placed 186 overall.

In the woman's race, the University of Florida dominated the meet, scoring a near perfect

Place	Score	Score	NCAA/Open	NAAJUR
1	Univ. of Florida	33	1	-
2	Auburn Univ.	42	2	-
3	Loyola Univ.	122	3	-
4	Georgia Tech	172	4	-
5	Florida State	182	5	-
6	Troy State Univ.	153	6	1
7	Univ. of Georgia	281	7	-
8	Univ. of Miami	272	8	-
9	Florida Int.	394	9	-
10	Santa Fe C.C.	435	10	-
11	Jacksonville Univ.	467	11	-
12	Barry Univ.	491	12	-
13	Flagler College	519	13	-
14	Florida Atlantic Univ.	593	14	-
15	Univ. of West Fla.	638	15	-
16	Fla. Inst. of Tech.	708	16	-
17	Univ. of Central Fla.	722	17	-
18	Georgia Southern Univ.	728	18	-
19	Nova Univ.	842	19	-
20	Sterling Univ.	877	20	-
21	Valdosta State Col.	882	21	-
22	Embry-Riddle Aero.	974	22	-
23	Saint Leo Col.	986	23	-
24	Brevard C.C.	1001	24	-
25	Edward Waters Col.	1025	25	-
26	Florida A&M	NTS	26	-
27	Florida C.C.	NTS	27	-
28	Florida Track Club	NTS	28	-
29	Florida Southern Col.	NTS	29	-
30	Georgia Track Club	NTS	30	-
31	Univ. of North Fla.	NTS	31	-

NTS=No Total Score X=Division Team Was Classified

score of 17, perfect being 15. In the independent school/junior college division, the U.S. Air Force Academy nudged out Troy State to take that Division win. The next meet is scheduled for Nov. 29. The race will be a match with D.B.C.C. and New Smyrna Sports Shop. In preparation for this race, practices are being held at 6:30 p.m. at the "Fine Davis pool." Everyone is welcome to attend, for more information, contact Rob Glascock box 4594 or calling 788-8550.

NAME	PLACE
Rob Glascock	180
Rick Reese	186
Andy Martin	196
Pan Mc-cabe	201
Rob Mohr	208
Walter Kressler	211

This is only the second event that the ERAU running club participated in this trimester. The next meet is scheduled for Nov. 29. The diagram to the left, shows how the ERAU running club placed, compared to the other teams entered in last week's Florida Invitational. The diagram (above), shows how the running club placed in relation to each other.

# Soccer Club loss finishes season

By Jason Miluak  
Club Writer

The ERAU Soccer Club finished the Fall '88 season with a loss to the University of Florida on Nov. 1. It was the Eagles' second loss to the Gators, but again it was not an easy victory for U.F.

The Gators scored in the first few minutes of the first half because of a collapse in the Eagle

defense. U.F. easily moved down the field but the ball was taken from them. Then a poor pass back to U.F. goalie, Leo Glynn, by an Eagle defender allowed a Gator forward to take the ball and score an easy goal.

But it didn't take long for ERAU to return the favor. On a cross from right defender, Eric Mangal, Ian Redhead headed the ball past Gator goalie to even the score at one piece.

In the second half however, the Eagles were sluggish. The Gators controlled the ball and moved up and down the field with ease. They were able to score two unanswered goals that enabled them to come out on top 3-1.

The Eagles had a few chances to score and to spark a comeback but were unable to put the ball in the back of the net. Communication lacked between Eagle players and they were not controlling the ball with accurate passing.

However, at times they did work hard and looked like a team. But to win games, a team has to do that all the time. The Eagle just didn't play 100 percent the whole game.

ERAU Eagle finished with a 2-3 record. Player-manager Brian Mondell and the rest of the team are looking forward to the Spring '89 season. There is plenty of talent and interest in the soccer club and no reason for the club to not continue to grow.

form. Should a tie occur, the winner will be selected by the most accurate prediction of any game.

This weeks winner is Greg Martin with 10 out of 13 correct.

The Gators scored in the first few minutes of the first half because of a collapse in the Eagle

cross from right defender, Eric Mangal, Ian Redhead headed the ball past Gator goalie to even the score at one piece.

the back of the net. Communication lacked between Eagle players and they were not controlling the ball with accurate passing.

ing '89 season. There is plenty of talent and interest in the soccer club and no reason for the club to not continue to grow.



## As always, there is NEVER an admission fee for Riddle students!\*

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IS  
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**WILL BE GIVEN AWAY**  
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**701**

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**TUESDAY - COLLEGE, FRAT AND NEW AGE MUSIC NIGHT! FREE ERAU 16oz. BEER MUG AT THE DOOR TO ALL STUDENTS WITH VALID ERAU ID. BRING MUG WITH YOU ANY NIGHT AND FILL IT WITH HEINEKEN DRAFT FROM A BUCK!**

**WEDNESDAY - 701 SOUTH PRESENTS MULTIPLE SCLEROSIS ROCK-A-LIKE NIGHT! LIP SYNC YOUR WAY TO STARDOM AND CASH PRIZES WHILE HELPING FIGHT MULTIPLE SCLEROSIS. LADIES DRINK FREE FROM 9PM TO 1:30PM.**

**FRIDAY - DRINK TWO FOR ONE DRINKS AND THROW PIES AT YOUR FAVORITE LAR EMPLOYEE! BUY A PIE FOR 5 BUCKS PROCEEDS TO HELP BUST MULTIPLE SCLEROSIS**

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